

Knowledge Resource & Relay Centre (KRRC)

AIKTC/KRRC/SoP/ACKN/QUES/2015-16/

Date: 06/04/2016

School: SoP-CBSGS

Branch: SoP

SEM: I


To,
Exam Controller,
AIKTC, New Panvel.

Dear Sir/Madam,

Received with thanks the following Semester/Periodic question papers from your exam cell:

Sr. No.	Subject Name	Subject Code	Format		No. of Copies
			SC	HC	
1	Physical Org. Chem.			✓	01
2	Physical Pharmacy – I			✓	01
3	APP – I			✓	01
4	Environmental Sci.			✓	01
5	Communication Skill			✓	01

Note: SC – Softcopy, HC - Hardcopy


(Shaheen Ansari)
Librarian, AIKTC

AIKTC-SCHOOL OF PHARMACY,PANVEL

Periodic Test: 2015-2016 (I SEM)

First Year B.Pharm

Subject: Communication Skills

Date: 11/09/2015

Total Marks: 15

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- I. Define sentence and state different types of sentence. (2M)
- II. Do as directed. (6M)
- a. The teacher said, " The Sun rises in the east."(Change the speech)
- b. Time and tide _____ for no man. (Fill in with suitable verb)
- c. Some boys were helping the wounded man. (Change the voice)
- d. Josh has written a letter.(change to future perfect)
- e. He lives____Hyderabad.He lives__ 48 Tilak Road.(Fill in prepositions)
- f. ____ the shower was over the Sun shone out again.(fill in conjunction)
- III. Give two examples of: (5M)
- a. Compound words
- b. Homophones
- c. Homonyms (with meaning)
- d. Antonyms
- e. Synonyms
- IV. Give two examples each of words with prefix and suffix. (2M)



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& National Integration

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Approved & Recognised by: All India Council for Technical Education and Council of Architecture, New Delhi
Directorate of Technical Education, Govt. of Maharashtra Affiliated to: University of Mumbai

First Year B. Pharm. (Semester -I)
Periodic Theory Examination

2015-16

EVS
15

Date: - 10-09-15
Time: - 10:30 AM to 11:15am

Note: 1) All sections are compulsory

Section I

Q1 Define the following 1 Mark

- i) Components of Environment ii) Non-renewable sources with examples

Q2 Explain in detail 2 Marks

ii) Fresh water running into the seas is wasted. How it can be utilized? what are the advantages and disadvantages? How pollution of the water can be controlled

(or)

ii) Explain in detail about Natural resources. Write a detail note on Forest resources Utilization, application and drawbacks of Deforestation?

Q3 Define ECOSYSTEM and explain in detail about anyone chain cycle. 2 Marks

Section II

Q1. Explain in brief about following terms (one or two sentence) 2 Marks

A) Carrying Capacity.

B) EIA

Q2 Define Sustainable development. Write an essay on Building Dams- Expected benefit and impact on Environment, Society and economy 3 Marks

Section III

Q1 What are the sources of water pollution. Write a note on case study of Minamata disease 3 Marks

Or

Q1) What are the causes of air pollution. Write a note on a case study of Bhopal gas tragedy

Q-2 Write a note on acid rain 3 Marks





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F. Y. B. Pharm. (Semester –I)
Periodic Theory Examination (2015 – 2016)

Subject: APP-I

Date: - 9/9/2015

Marks: 15

Time: - 14.00 am-12.00 pm

All Questions are compulsory.

Questions

Marks

Q.1: Attempt any one of the following:

[3 Marks]

- Draw neat labelled diagram of lymph node showing its structural details and state functions of lymphatic system
- Explain histology and function of spleen.

Q.2: Fill in the blanks in the following statements

[2 Marks]

- _____ is a largest lymphatic organ present in the body.
- _____ tissue of lymphatic system is not enclosed in a capsule.

Q.3: Attempt any two of the following:

[4 Marks]

- Explain in short the conditions that may cause haemolytic disease of new born (HDN).
- How do the extrinsic and intrinsic pathways of blood clotting differs?
- Explain the role of blood as regulator and protector in human body.

Q.4: Attempt any two of the following:

[6 Marks]

- Explain the process of haemostasis
- Explain ABO blood group system
- Describe the function, life cycle, and production of red blood cells.





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**F. Y. B. Pharm. (Semester –I)
Periodic Theory Examination (2015 – 2016)**

**Subject: Physical Pharmacy I
Marks: 15M**

**Date: 8/9/2015
Time: -11.00 am-12.00 pm**

Q-1 What do you mean by real gases? State the reasons for reality. Write down the Van der waals equation for real gases. **[4M]**

Or

Q-1 Define critical phenomena. What are the various critical constants. What is continuity of state?

Q-2 Define/ state the following- (any one) **[1M]**

- a) R.M.S velocity with formula.
- b) Ideal gas equation

Q-3 Describe Claude's method. **[2.5M]**

Or

Q-3 Write a short note on polymorphism..

Q-4. Write short notes on **[4M]**

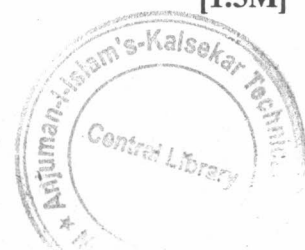
- i. Gibbs free energy
- ii. Thermodynamic system

Q-5. Derive the expression for isothermal work of expansion of ideal gas under variable pressure?

OR

Q-5. Write a note on Hess law of constant heat summation. **[2M]**

Q-6. Give definition, application and limitations of thermodynamics? **[1.5M]**





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F. Y. B. Pharm. (Semester -I)
Periodic Theory Examination (2015 - 2016)

CBSGS

Subject: POC
Marks: 15 Marks

Date: -07/09 /2015
Time: - 10.15 am-11.15 am

Q.1 Explain the following terms (Any two)

a) Node b) Hybridization index c) Molecular Quadrupole d) Polar Covalent Bond

02

Q.2 Draw Resonating Structures for

02

a) CH_2NO_2^- b) CH_3CO_2^-

Q.3 Match the following Pair

02

A	B
i. Shape of molecule with 02 bonding pairs and 02 lone pair of electrons as per VSEPR	π symmetry
ii. Ground state Electronic configuration of Carbon	$2s^2, 1s^2, 2p^2, 3d^0$
iii. Valence electrons of Fe (At. No. 26)	$2s^2, (2p^2), 3s^4, 3p^6$
iv. d_{xy} orbital	$3d^6, 4s^2$
	$1s^2(2s^2)2p^2$
	None of the above



02

Q.4 Complete the following sentences:-

a) Oxygen in water has -----bond pair and ----- lone pair.

b) dz^2 orbital has ----- symmetry along z-axis.

c) In electrostatic potential surface maps, red colour represents ----- whereas blue colour represents a -----

d) Number of bonds between two atoms is called -----

Q.5 Explain the formation of Ammonia molecule using Hybridization theory.

02

Q.6 Write a note on General Catalysis

03

Q.7 Draw Lewis Structures and Calculate Formal charges on Iodine and Sulphur atom of KIO_3 and H_2SO_4 respectively

02